

# Material Safety Data Sheet

**FIRST DEFENSE®**

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910. 1200. Standard must be consulted for specific requirements.

## QUICK IDENTIFIER

Common Name: (used on label and list)

**5099 - MK9 First Defense HV Stream**

## SECTION 1 -

Manufacturer's

Name **Defense Technology / Federal Laboratories**

Address

**Postal Box 248**

Emergency  
Telephone No.

**(800) 424-9300**

City, State, and ZIP

**Casper, Wyoming 82602**

Other  
Information  
Calls

**(877) 248-3835**

Signature of Person  
Responsible for Preparation (Optional)

Date  
Prepared

**11/01/01**

## SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	CAS NO.
<i>*Capsaicinoids</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>.18%</i>	<i>404-86-4</i>
<i>*Propylene Glycol USP</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>13%</i>	<i>57-55-6</i>
<i>*Specialty Denatured Alcohol (SDA) 40B</i>	<i>1,000 ppm</i>	<i>1,000 ppm</i>	<i>N/A</i>	<i>28%</i>	<i>64-17-5</i>
<i>*Distilled H2O</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>58%</i>	<i>N/A</i>

*\*Nitrogen is the exclusive propellant.*

*There are no HCFC's or CFC's*

*\*U.S. Patent 5,217,708,*

## SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point <b>&gt;220°</b>	Specific Gravity (H2O = 1) <b>0.955</b>	Vapor Pressure (mm Hg) <b>N/A</b>
Vapor Density (Air = 1) <b>N/A</b>	Reactivity in Water <b>None</b>	
Solubility in Water <b>Soluble</b>	Melting Point <b>N/A</b>	
Appearance and Odor <b>Creamy / Pungent</b>		

## SECTION 4 - FIRE & EXPLOSION DATA

Flash Point <b>&gt;220°</b>	Method Used <b>SW846-1010</b>	Flammable Limits in Air % by Volume	LEL Lower <b>N/A</b>	UEL Upper <b>N/A</b>
Auto-Ignition Temperature <b>&gt;220° F.</b>	Extinguisher Media <b>Water, foam, dry chemical CO2.</b>			
Special Fire Fighting Procedures <b>Wear respirator or self-contained breathing apparatus to avoid irritation.</b>				

Unusual Fire and  
Explosion Hazards **None.**

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## SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability    Unstable ☐    Conditions  
                 Stable ☒    to AvoidIncompatibility  
(Materials to Avoid)    N/AHazardous  
Decomposition Products    N/AHazardous    May Occur    Conditions  
Polymerization    Will Not Occur ☒    to Avoid

## SECTION 6 - HEALTH HAZARDS

1. Acute

2. Chronic

*See Signs and Symptoms**See Signs and Symptoms*Signs and  
Symptoms of Exposure    *Ingredients may cause irritation through all routes of entry. Repeated contact may cause dermatitis.**Ingestion may cause nausea, vomiting, and/or diarrhea.*Medical Conditions Generally  
Aggravated by Exposure    *May cause more severe, temporary, effects on those persons who are asthmatics**or suffer from emphysema*Chemical Listed as Carcinogen  
or Potential CarcinogenNational Toxicology Yes ☐  
Program    No ☒I.A.R.C. Yes ☐  
Monographs No ☒OSHA Yes ☐  
No ☒Emergency and  
First Aid Procedures    *Provide fresh air. Irrigate with copious amounts of cool water. Obtain medical advice if symptoms persist.*ROUTES  
OF  
ENTRY1. Inhalation    *Provide fresh air.*2. Eyes    *Irrigate with cool water at least 15 minutes, or until relieved.*3. Skin    *Flush with cool water. Wash with mild soap and water.*4. Ingestion    *Rinse mouth with water. Ingest milk, or water. Obtain medical advice immediately.*

## SECTION 7 - SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES

Precautions to be Taken  
in Handling and Storage    *Store in a cool, dry area. Avoid direct light and heat. Do not expose to temperatures over 120° F.*Other  
Precautions    N/ASteps to be Taken in Case  
Material is Released or Spilled    *Wipe up small spills with absorbent. With large spills, use respiratory equipment**to avoid irritation, and collect with an absorbent.*Waste Disposal  
Methods ( Consult Federal, State, and Local Regulations )*Evacuate contents in a safe area, and dispose of container.*

## SECTION 8 - SPECIAL PROTECTION INFORMATION / CONTROL MEASURES

Respiratory Protection  
( Specify Type )    *Not required under normal conditions of use.*

Ventilation    Yes    Local Exhaust    Yes    Mechanical ( General )    Special    Other

Protective  
Gloves    Eye Protection    *To be utilized in a manufacturing environment in*Other Protective  
Clothing or Equipment    *Not required*    *and around machinery. Minimal exposure without protective*Work/Hygienic Practices    *Normal*    *eyewear in an officer training environment is acceptable.*

## IMPORTANT

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.